

# Reactor Concepts Technical Review Panel (TRP)

March 21, 2012

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# TRP Overview

- DOE is seeking greater interaction with industry and other external entities for development of its R&D program.
- NE has instituted a TRP, which will review advanced reactor concepts and help identify R&D needs.
- DOE may periodically issue a Request for Information (RFI) for external entities to voluntarily submit information on concepts for DOE/NE to consider.
  - This year the RFI requests input from industry only.
- The TRP includes reactor experts from industry, national laboratories, and academia.



# TRP Process and Purpose

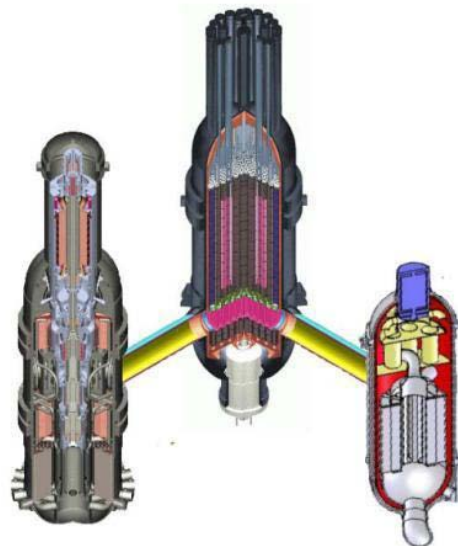
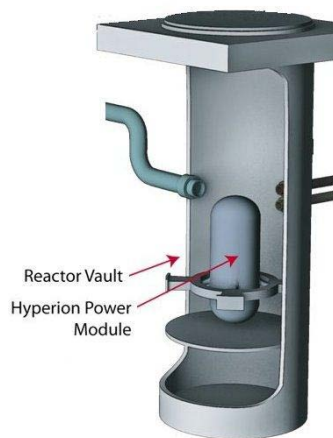
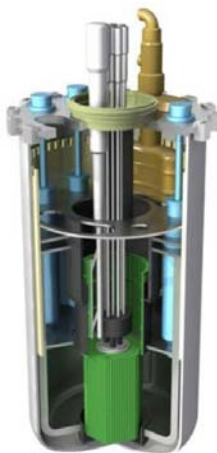
- The TRP will evaluate advanced reactor concept options and make recommendations concerning R&D needs. Output from the TRP process will be:
  - Identification of R&D needs by concept
  - Identification of R&D support that could be of benefit to multiple concepts
  - Recommendations on prioritization of potential R&D activities.
- DOE/NE will use TRP results to
  - Inform research, development and demonstration activities
  - Define appropriate level of DOE/NE investment in technology development
  - Prioritize R&D activities
- Greater interaction should lead to an informed R&D program that reflects industry, university and national laboratory inputs, and potential opportunities for collaborative efforts on R&D projects.



# TRP Benefits

The Technical Review Panel process will have several positive benefits:

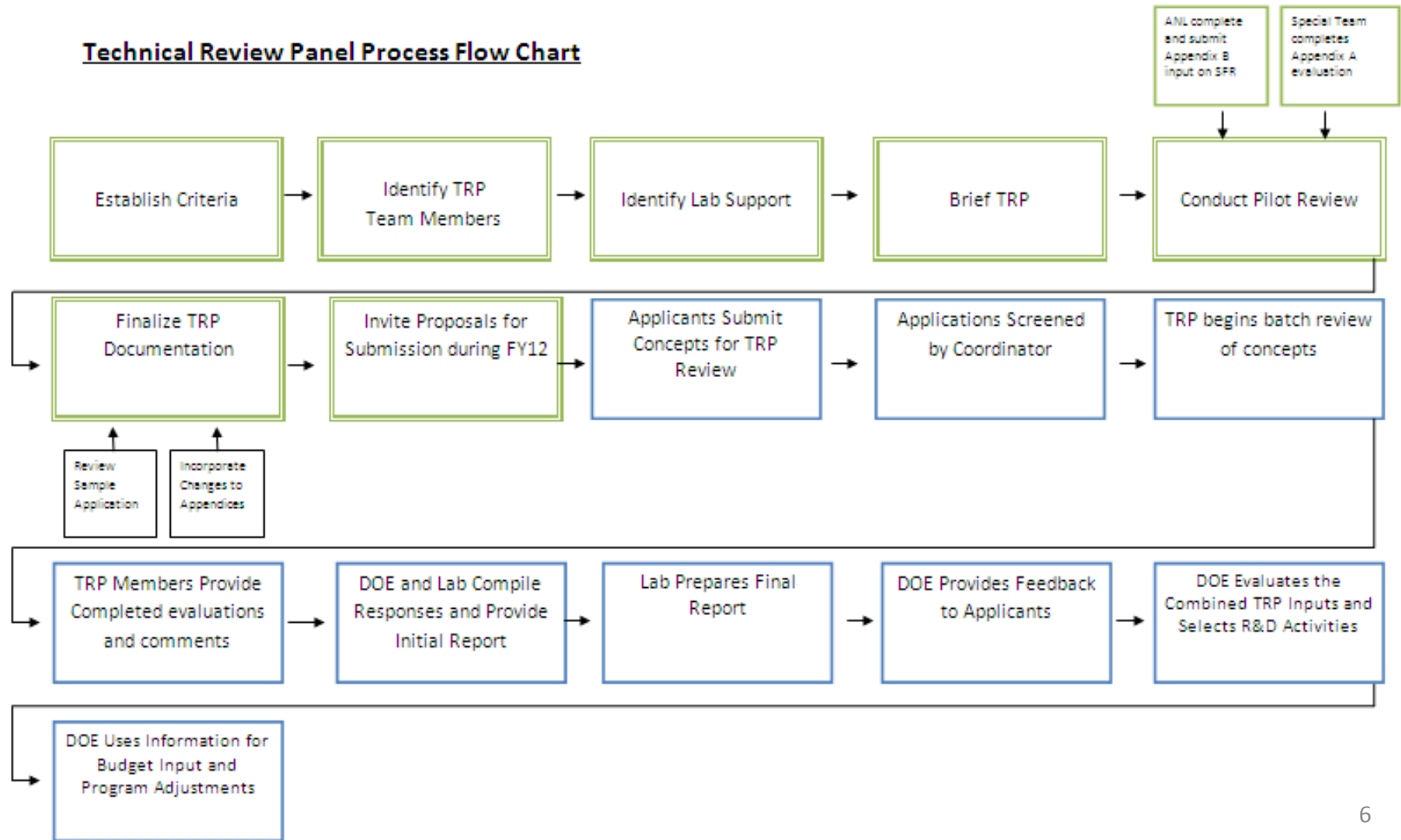
- Provides an opportunity for industry, universities and national laboratories to put forward viable concepts for R&D funding consideration.
- Provides a fair and equitable process for evaluating concepts, including advanced reactors, SMRs and HTGRs.
- Provides a means to justify R&D decision making to stakeholders such as OMB and Congress.
- Provides strong technical basis in identifying R&D gaps, R&D needs, and funding requirements.





# TRP Review Process

## Technical Review Panel Process Flow Chart





# Technical Review Panel

## *Team Composition - Membership*

### ■ DOE National Laboratories

- Phillip Finck – INL
- Bob Hill – ANL
- David Petti – INL
- John Sackett – INL
- Sara Scott – LANL
- Michael Todosow – BNL

### ■ Academia

- Mujid Kazimi – Massachusetts Institute of Technology
- John Lee – University of Michigan
- Paul Turinsky – North Carolina State University

### ■ Nuclear Industry

- Richard Barrett – Adstm/NRC retired
- Ken Barry – EPRI
- Eric Loewen – GE Hitachi/ANS President
- Ted Marston – Marston Consulting
- Regis Matzie – Westinghouse International
- Everett Redmond – NEI
- Finis Southworth - Areva
- Joe Turnage – Turnage Consulting/ formerly with Constellation Energy
- Dan Ingersoll – NuScale



# Next Steps

- **FY 2012 Reactor Concept Inputs**
  - Request for Information released on 22 February 2012
  - Industry meeting held on 29 February 2012
  - Concept entities submit responses by 2 April 2012
- **DOE establishes TRP subgroup(s) to review concepts and dependent on the number of concepts received:**
  - TRP subgroups receive inputs for review by 15 April 2012
  - TRP subgroups submit comments after review by about 15 May 2012
- **DOE and laboratory team compile responses and prepare report**
- **DOE provides feedback to applicants**

# TRP Roles

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## **DOE Lead – Craig Welling**

- Overall lead for the TRP process

## **TRP Chair – Phillip Finck**

- Serves as the lead TRP member

## **TRP Laboratory Support Lead – Roald Wigeland**

- Serves as laboratory technical support for the overall TRP review process